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## NOTICE OF ALLOWANCE AND ISSUE FEE DUE

NM11/0507

JAMES 1. HAPOLI MARSHALL, OTOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH WACKER DRIVE CHICAGU IL 60606-6402

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART L	INIT PER S	DATE MAILED
08/869.389	07/16/96	015	NGO. T	1611	05/07/98
First Named GAUGAII. Applicant		ALA.	IN C. M.		

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ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APP	.N. TYPE	SMALL ENTITY	FEE DUE		DATE DUE
1 REF/1233	CV 514-1	249,000	D83	UTILI	TY NO	\$1320.0	0.	08/07/98

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

\*\*ROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

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- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- I. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- II. All communications regarding this application must give application number and batch number. And the property of the Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

MPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance is seen and the second second

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#### UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 REF/I233CV BET NAMED APPLICANT ATTORNEY DOCKET NO. 7/16/76 FIRST NAMED APPLICANT FILING DATE 08/669.389 07/16/96 DAUGAN REF/1233CV EXAMINER NH11/0507 T. NGO NGO T JAMES J. NAPOLI PAPER NUMBER MARSHALL, OTOOLE, GERSTEIN, MURRAY & 14

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BORUN. 6300 SEARS TOWER,

233 SOUTH WACKER DRIVE	1611
CHICAGO IL 60606-6402	DATE MAILED:
	05/07/98
This is a communication from the examiner in charge of your application.	
COMMISSIONER OF PATENTS AND TRADEMARKS	•
NOTICE OF ALLOWARIE	
NOTICE OF ALLOWABILI	•
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLC previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate cor	OSED in this application. If not included herewith (or mmunication will be mailed in due course.
This communication is responsive to	·
☐ The allowed claim(s) is/are	· · · · · · · · · · · · · · · · · · ·
The drawings filed on are acceptable.	·
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a	a)-(d).
☐ All ☐ Some* ☑ None of the CERTIFIED copies of the priority documents	s have been
neceived.	
received in Application No. (Series Code/Serial Number)	•
received in this national stage application from the International Bureau (PCT	Rule 17.2(a)).
*Certified copies not received:	
Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 11	19(e).
A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the require FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result time may be obtained under the provisions of 37 CFR 1.136(a).	ments noted below is set to EXPIRE THREE MONTHS in ABANDONMENT of this application. Extensions of
Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPL declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRE	LICATION, PTO-152, which discloses that the oath or ED.
Applicant MUST submit NEW FORMAL DRAWINGS	
because the originally filed drawings were declared by applicant to be informal.	
including changes required by the Notice of Draftperson's Patent Drawing Revi	
including changes required by the proposed drawing correction filed on	which has been approved
including changes required by the attached Examiner's Amendment/Comment	<b>.</b>
Identifying Indicia such as the application number (see 37 CFR 1.84(c)) shout The drawings should be filed as a separate paper with a transmittal letter add	ld be written on the reverse side of the drawings. dressed to the Official Draftperson.
■ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DI	EPOSIT OF BIOLOGICAL MATERIAL.
Any response to this letter should include, in the upper right hand corner, the APPLIC if applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATC ALLOWANCE should also be included.	CATION NUMBER (SERIES CODE/SERIAL NUMBER).
Attachipent(s)	
Notice of References Cited, PTO-892	•
Information Disclosure Statement(s), PTO-1449, Paper No(s).	minkind J. Shad
Notice of Draftsperson's Patent Drawing Review, PTO-948	MUKUND J. SHAH
Notice of Informal Patent Application, PTO-152	SUPERVISORY PATENT EXAMINER  GROUP 1200
Interview Summary, PTO-413	andur 1600
Examiner's Amendment/Comment	
Transport Comment Reparting Requirement for Deposit of Biological Materia	al
D Staminer's Statement of Reasons for Allowance	
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# Allowable Subject Matter

Applicant's amendment filed on 2-9-98 has overcome the previous 112 rejection. Nonelected subject matters have been canceled, and with no other rejections the application is in condition for allowance.

Accordingly, claims 1 - 10 and 13 - 17 are allowed.

# Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The claimed invention directs to tricyclic and tetracyclic compounds of Formula (I) and (II) wherein an aromatic ring or ring system bonds to the sixth position of tetracycle of Formula (I), or bonds to the second position of the tricycle of Formula (II). The invention also directs to a process of making Formula (I) by reacting Formula (II) with a primary amine followed by an interconversion step and/or salt formation; or solvate formation. The closest prior art, GB 1,454,171 (or GB'171 from here on), discloses octahydrohydro-pyrazino[1',2':1,6]pyrido[3,4]indoles-1,4-dione wherein the substituent at the sixth position is either hydrogen or lower alkyl, not a ring or ring system as in the instant claims. The process disclosed by GB'171 appears similar; however, at a closer look the claimed Formula (II) is not the same as Formula (V) of GB'171 since the claimed R<sup>2</sup> differs from the disclosed R<sup>1</sup>. Since the claimed Formula (II)

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is not commercially available, the process of GB'171 cannot render obvious the claimed

process. No other prior arts can be combined with GB'171 to teach or fairly suggest the

claimed Formulae (I) and (II) and the process of making Formula (I).

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Ms. Tamthom (or Tam) Ngo whose telephone number is (703) 305 - 4485.

The examiner can normally be reached on Monday thru Friday from 9:00 am to 5:30 pm EST.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308 - 1235.

T. Ngo / 5-5-98

Mukund J. Shah

**Supervisory Patent Examiner** 

Muxued J. Shal

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